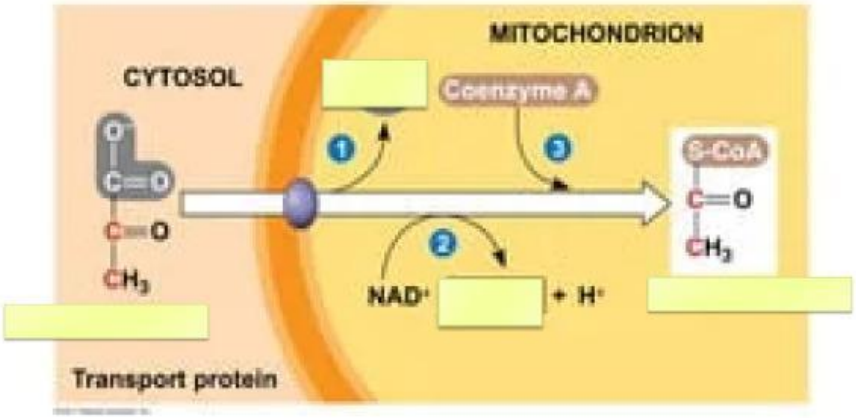
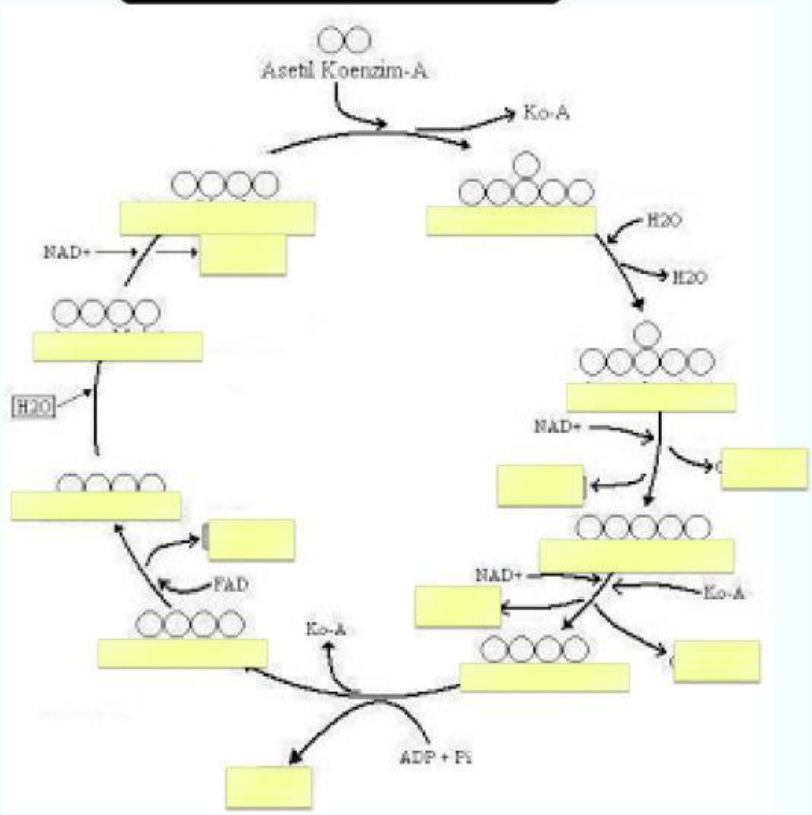
KATABOLISME: RESPIRASI AEROB

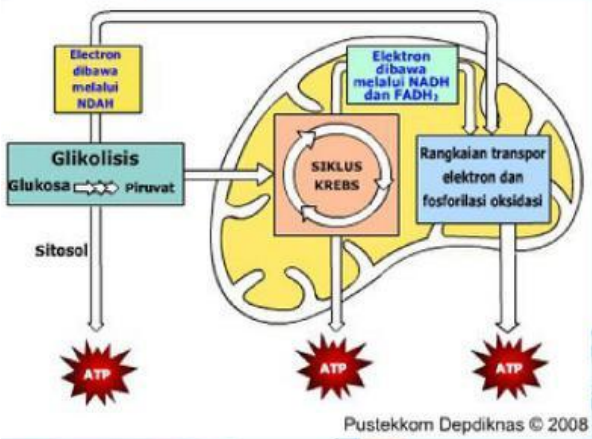
Nama : _____ Kelas : .....

TAHAP DEKARBOKSILASI OKSIDATIF

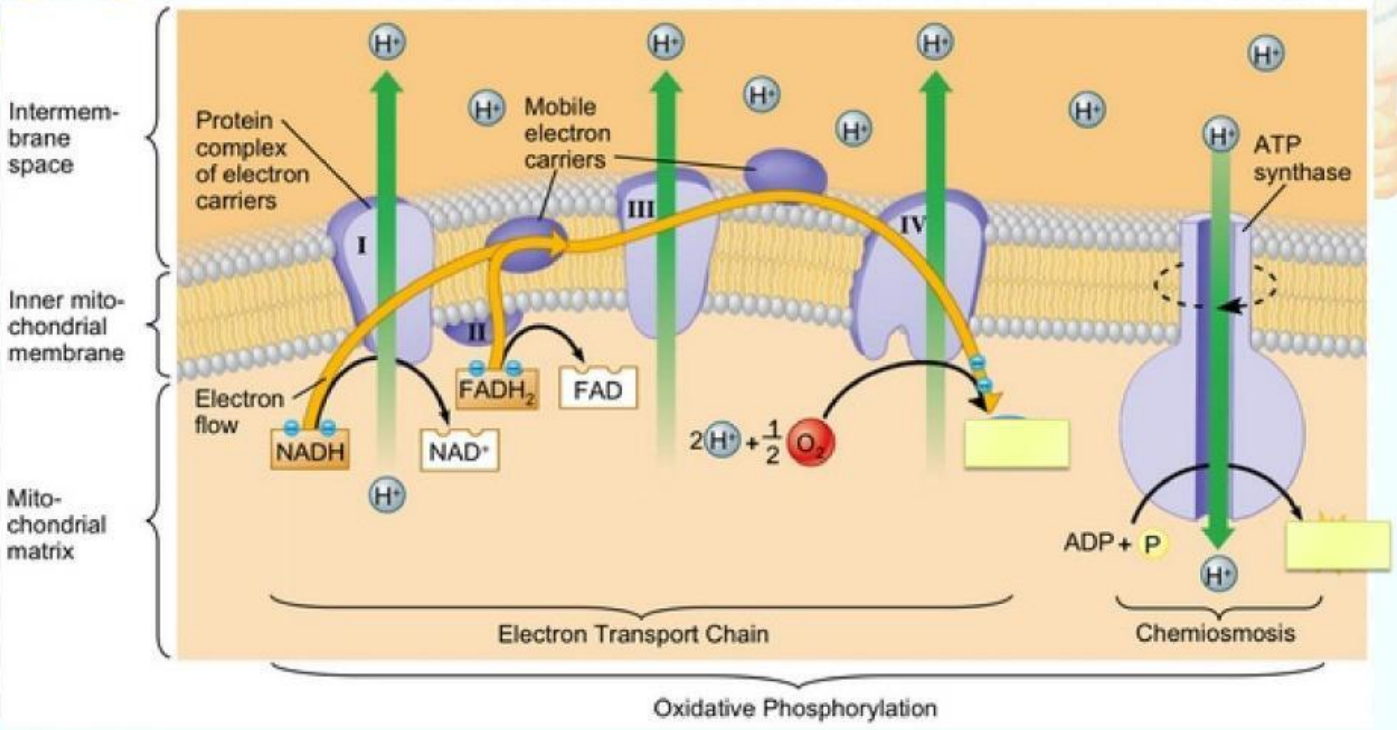


SIKLUS KREBS





TRANSPOR ELEKTRON



No.	TAHAPAN RESPIRASI AEROB			
	Nama Reaksi	Lokasi Terjadinya	Bahan yang Digunakan	Produk Akhir
1	Glikolisis	Sitoplasma	Glukosa	2 ATP 2 Asam Piruvat 2 NADH
2	Dekarboksilasi Oksidatif	Matriks mitokondria	2 Asam Piruvat	2 Asetil Ko-A 2 CO_2 2 NADH
3	Siklus Krebs	Matriks mitokondria	2 Asetil Ko-A	2 ATP 4 CO_2 6 NADH 2 $FADH_2$
4	Transpor Elektron	Membran dalam mitokondria (krista)	10 NADH 2 $FADH_2$	34 ATP 6 H_2O

Cellular Respiration

Turning sugar into usable energy (ATP)

$$C_6H_{12}O_6 + 6O_2 \xrightarrow{\text{Cellular Respiration}} 6CO_2 + 6\,H_2O + 36\ ATP + Heat$$

Glucose/Sugar (Food that we eat) + Oxygen (Inhale) → Carbon Dioxide (Exhale) + Water (Exhale) + Stored Energy Molecules (Used by body) + Heat (Used by body)

Total ATP
Sistem ulang-alik malat aspartat:
Sistem ulang-alik gliserol fosfat:

Total CO2:
Total H2O: